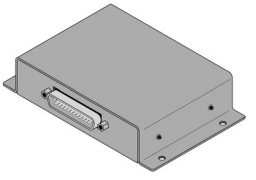
AUDIO ENTERTAINMENT

Audio is our first name...and we offer a complete family of high performance aircraft entertainment components with full-range sound quality guaranteed to please the most demanding audiophiles. From basic single-source audio to multiple source systems with complete passenger selectability, we deliver the components and expertise to serve your needs.

The audio components presented here form standard basic building blocks that can be arranged in almost any configuration for any size aircraft. These amplifiers and other audio components are built to rugged aircraft standards and are easily incorporated into new or existing cabin audio systems. All feature compact size, solid state circuitry, lightweight aluminum housings, and an attractive, durable anodized finish.

Pre-Amplifiers

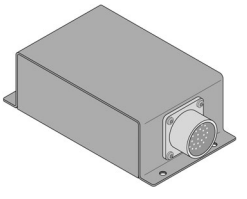


AI-LDC - Stereo Preamp with Differential Input Use one unit for each audio source. Pot adjustment for source signal level. 28 VDC operation. 0.30 lb / 0.14 kg; 3.1" x 5.0" x 1.05" / 7.9 x 12.7 x 2.7cm (l,w,h)

AI-LDC1 - Stereo Preamp with Remote Volume Control
Same as the AI-LDC with added remote volume capability. Adjust levels from remote location using momentary ground logic or 10 k pot. 28 VDC operation.
0.33 lb / 0.15 kg; Same housing as AI-LDC.

AI-LDC2 - Dual Stereo Preamp Two AI-LDC's in one case for use with 2 stereo sources.
28 VDC operation.
0.32 lb / 0.145 kg; Same housing as AI-LDC.

Chime/Page Interfaces



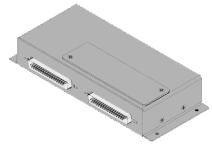
AI-STR-01A - Chime/Page Interface Allows cabin audio system to broadcast chime/page messages. Designed for use with existing PA amps. Automatically interrupts entertainment audio to cabin speakers for chime/page override. Accepts high level PA audio inputs. 28 VDC operation.
0.54 lb / 0.25 kg; 5.0" x 2.75" x 1.6" / 12.7 x 6.99 x 4.06cm (l,w,h)

MSM510-01-x - Chime/Page Interface Provides full aircraft chime/page functionality, three prioritized microphone inputs and one cabin briefing input are featured. Multiple digital chime options activated by ground or 28 VDC input provide two high-tone and two low-tone chime/page outputs. Input and output levels are independently adjustable. 28 VDC operation.
The "-x" suffix denotes the connector that is utilized; -1 = Positronic and -2 = D-Subminiature.
0.75 lb / 0.34 kg; 7.1" x 5.0" x 1.0" / 18.03 x 12.70 x 2.54cm (l,w,h)

AUDIO COMPONENTS

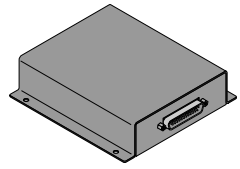
Audio Controllers

AI-LDC101-01-x - Four Source Audio Line Driver Four independent stereo audio input channels and 2 output channels for each input. Gain controls for the left and right output. Compact and lightweight pre-amplifier assists in the elimination of noise and interference. 28 VDC operation. 0.695 lb / 0.32 kg; 3.2" x 7.8" x 1.4"/ 8.13 x 19.56 x 3.56cm (l,w,h).



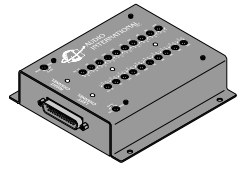
Equalizers

AI-DEQ-01 - Ten Band Digital Equalizer/Audio Processor Professional digital equalizer/audio processor that gives the passenger the ability to select eight preset music styles (classical, rock, jazz, pop, and four programmable presets). Features include ten different band frequencies at one-octave intervals. 28 VDC operation. 0.53 lb / 0.24 kg; 5.0" x 5.0" x 1.0" / 12.7 x 12.7 x 2.54cm (l,w,h).



AI-EQ1 - Ten Band Equalizer Professional stereo equalizer with differential inputs. Provides 10 one-octave steps of precise tuning to match audio to interior acoustics. Trim pot cover seals box and protects settings. 28 VDC operation.
0.65 lb / 0.29 kg; 5.15" x 4.95" x 1.3" / 13.1 x 12.6 x 3.3cm (l,w,h).

AI-EQ1/V - Ten Band Equalizer with Volume Control Same as AI-EQ1 with added remote volume control capability. Adjust levels from remote location using 10k pot. 28 VDC operation. 0.75 lb / 0.34 kg; Same housing as AI-EQ1.

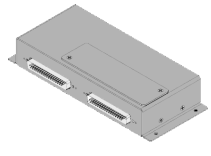


Cabin & Headphone Source Selectors

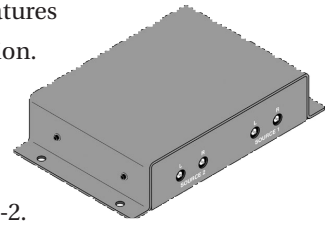
HDM-3 - Headphone Distribution Amp Provides 3 selectable stereo inputs (w/separate gain controls), mono PA input, 2 separate 5 WRMS stereo outputs, and integral chime/page override. Also used as source selector/preamp. 28 VDC operation.
0.47 lb / 0.21 kg; 3.1" x 5.0" x 1.3" / 7.9 x 12.7 x 3.9cm (l,w,h).

ACM-5 - Audio Control Module Provides up to 5 selectable stereo inputs (low impedance). volume control, bargraph outputs, and 4 WRMS stereo output. 28 VDC operation.
0.605 lb / 0.27 kg; 3.1" x 7.1" x 1.15" / 7.9 x 18.0 x 29cm (l,w,h).

ACM-8-Ox-x - Audio control Module Provides up to 8 selectable stereo audio inputs, volume control, bargraph outputs, and binary volume data for digital displays. 28 VDC operation.
The "-Ox" within the model number denotes the specific model configuration and the "-x" suffix denotes the connector that is utilized; -1 = Positronic and -2 =D-Subminiature.
0.8 lb / 0.36 kg; 3.2" x 7.7" x 1.4" / 8.13 x 19.56 x 3.56cm (l,w,h).



AIS-2 - Audio Source Selector Provides selection between two stereo sources. Features differential switching, independent trim for all inputs, and constant ground source selection. 28 VDC operation. 0.50 lb / 0.23 kg; 3.1" x 5.0" x 1.05" / 7.9 x 12.7 x 2.7cm (l,w,h).



AIS-2A - Audio Source Selector Same as AIS-2 except with momentary logic instead of constant ground source selection. 28 VDC operation. 0.50 lb / 0.23 kg; Same housing as AIS-2.

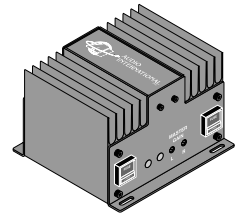
Surround Sound

ASP-301-01-x - Surround Sound Processor The ASP-301-01-x accepts both analog and digital autio inputs. Via RS-485 data bus communication, this unit commands distribution of processed audio to cabin audio power amplifiers. It allows multiple source audio inputs to be selected. Integrated cabin audio surround sound processor with four digital audio source inputs and one analog audio input. Three binary unit ID pin inputs identify each module on the data bus in a multi-unit configuration (up to eight units total on the same AI proprietary RS-485 data bus.) Mute input and capable of full range audio (20 Hz to 20 kHz ± 1 dB). 28 VDC operation. *The "-x" suffix denotes the connector that is utilized; -1= Positronic and -2 = D-Subminiature.* 6.3 lb / 5.4 kg; 16.58" x 11.58" x 3.50" / 42.11 x 29.41 x 8.89cm (l,w,h).

Audio Amplifiers

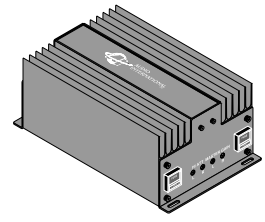
All audio amplifiers shown provide a convenient 12 VDC, 3 Amp output for powering source components which eliminates the need for separate inverter/converters.

100 Watt Amplifiers



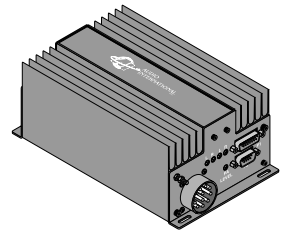
AI-ST100X - 100 Watt, Stereo Power Amplifier This basic audio component delivers high performance, excellent frequency response, and clear sound quality. 2 channels, 50W per channel RMS. 28 VDC operation. 1.90 lb / 0.86 kg; 4.5" x 4.75" x 3.1" / 11.4 x 12.0 x 7.9cm (l,w,h).

200 Watt Amplifiers



AI-ST200X - 200 Watt, Stereo Power Amplifier Two ST100X amps combined into one enclosure. 4 channels, 50W per channel RMS. 28 VDC operation.
3.3 lb / 1.5 kg; 8.0" x 4.75" x 3.1" / 20.3 x 11.96 x 7.9cm (l,w,h).

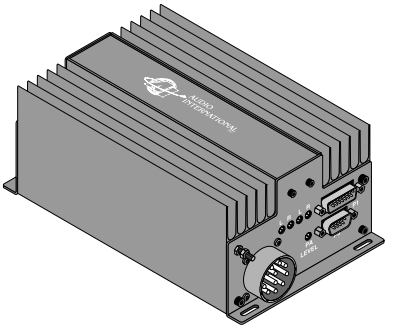
AI-SW200X - 200 Watt, Dual Audio Amplifier Two ST100X amplifiers combined into one enclosure with a built-in 135Hz crossover. Provides separate subwoofer and midrange/tweeter outputs for powerful full range performance. 4 channels, 50W per channel RMS. 28 VDC operation.
3.3 lb / 1.5 kg; Same housing as AI-ST200X.



AI-W400X - 200 Watt, Stereo Subwoofer Power Amplifier
Same as the AI-SW-200X except with 2 built-in 135 Hz crossovers. 4 subwoofer outputs for powerful bass. Accepts low level PA audio inputs. 4 channels, 50W per channel RMS.
28 VDC operation. 3.3 lb / 1.5 kg; 8.0" x 4.7" x 3.1" / 20.3 x 11.9 x 7.9cm (l,w,h).

200 Watt Amplifiers with PA Override

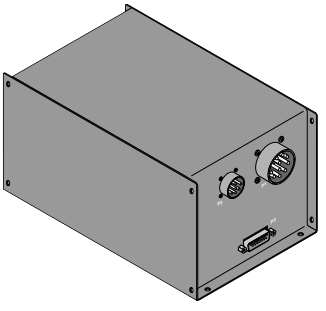
AI-ST400X - 200 Watt, Stereo Power Amplifier This cabin audio amp delivers high performance, excellent frequency response, and clear sound quality. Includes PA audio override with gain adjust.
4 channels, 50W per channel RMS. 28 VDC operation.
2.95 lb / 1.33 kg; 8.62" x 4.74" x 3.12" / 12.04 x 21.9 x 7.92cm (l,w, h)



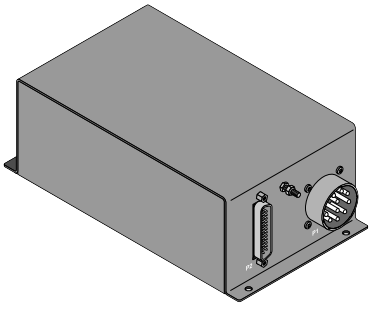
AI-SW400X - 200 Watt, Dual Audio Amplifier Professional amplifier with built-in 135 Hz crossover. Separate subwoofer and midrange/tweeter outputs for powerful full range performance. Includes audio override with gain adjust. Accepts low level PA audio inputs.
4 channel. 50W per channel RMS. 28 VDC operation. Same size and weight as the AI-ST400X.

300 Watt Amplifiers with PA Override

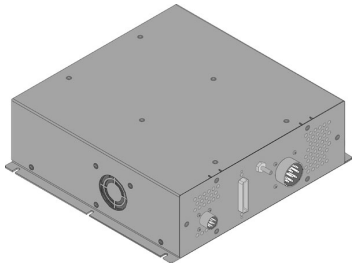
PA-475-A(-B,-C) - 300 Watt, Class"D" Stereo / Subwoofer Amplifier
High performance amplifier with built-in 135 Hz crossover network for subwoofer frequencies. Two separate midrange/tweeter and two subwoofer outputs for powerful full range performance. Models A & C have 4 channels, 75W per channel RMS. Model B has 4 channels, 50W per channel RMS (200 Watt total). 115 Vac operation.
5.1 lb / 2.3 kg; 9.3" x 4.9" x 4.0" / 23.62 x 12.45 x 10.16cm (l,w,h).
-B and -C: 5.2 lb / 2.36 kg



PA-475-01-x - 300 Watt, Class "D" Stereo / Subwoofer Amplifier
Same high performance operation as the PA-475-A except that this amp can be configured for either 4 midrange/tweeter outputs, or two midrange/tweeter and two subwoofer outputs. Accepts low level PA audio inputs. 4 channels, 75W per channel RMS. 28 VDC operation.
The "-x" suffix denotes the connector that is utilized;
-1=Positronic and -2=D-subminiature.
2.6 lb / 1.18 kg; 8.0" x 4.74" x 2.69" / 20.32 x 12.04 x 6.83cm (l,w,h).



PA-480-01-x - 300 Watt, Class “D” Stereo / Subwoofer Power Amplifier



It is a 4-channel audio amplifier composed of two separate amplifiers with two channels each. The PA-480-01-x produces 4 x 75 W output power. It can be configured for up to four full range speakers or two full range and two subwoofer outputs. It produces high fidelity stereo audio output for the entertainment system and monaural audio output for PA/chime functions. The amplifier is designed to interface with Autio International’s proprietary RS-485 data bus, allowing all entertainment switch panels to perate the amplifier. 115 VAC operation.

The "-x" suffix denotes the connector that is utilized;
-1=Positronic and -2=D-subminiature.

6.5 lb / 2.95 kg; 9.1" x 9.8" x 3.0" / 23.11 x 24.89 x 7.62cm (l,w,h).

PA-3100-01-x - 300W, Class A/B 3-way amplifier, 100 WRMS per channel

It produces 3 x 100 WRMS output power and can be configured for up to three full range speaker outputs or surround sound applications. It produces high fidelity audio for the entertainment system. While delivering high output, excellent frequency response, and clear sound quality. 115 VAC operation @ 400 Hz.

The "-x" suffix denotes the connector that is utilized;
-1=Positronic and -2=D-subminiature.

11.2 lb / 5.08 kg; 10.3" x 9.0" x 4.3" / 26.16 x 22.86 x 10.92cm (l,w,h).